

SONY

3-810-755-21 (1)

Compact Disc Compact Player

Operating Instructions



D-150AN

D-151

D-151V

D-152CK

D-153

D-155

Sony Corporation ©1996 Printed in Malaysia

||

Welcome!

Thank you for purchasing the Sony Compact Disc Compact Player. Before operating your Discman, please read this manual and retain it for future reference.

About this manual

The instructions in this manual are for the D-150AN, D-151, D-151V, D-152CK, D-153 and D-155. Before you start reading, check your model number. The D-150AN is the model used for illustration purposes. For the accessories supplied with your Discman, check your model number and refer to "Supplied Accessories" towards the end of this manual.

Owner's Record

The model and the serial numbers are located at the bottom. Record these numbers in the spaces provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. _____ Serial No. _____

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

CAUTION

The use of optical instruments with this product will increase eye hazard.

INFORMATION

For the customers in the USA

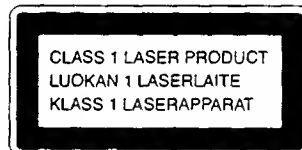
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.


For the customers in the U.K.

This Compact Disc player is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT label is located on the bottom exterior.



For the customers in Australia

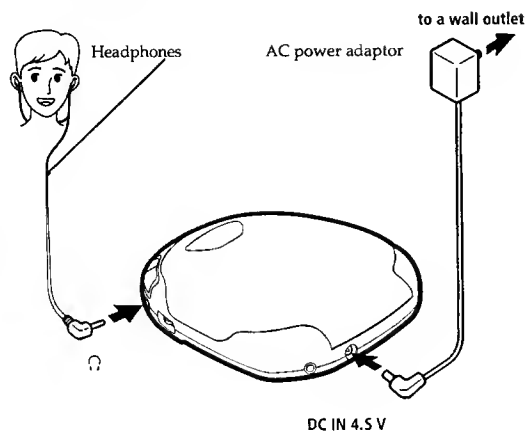
The supply cord of the AC power adaptor cannot be replaced; if the cord is damaged, the AC power adaptor should be discarded.

The  mark on the unit is valid only for the products marketed in Poland.

Playing a CD right away!

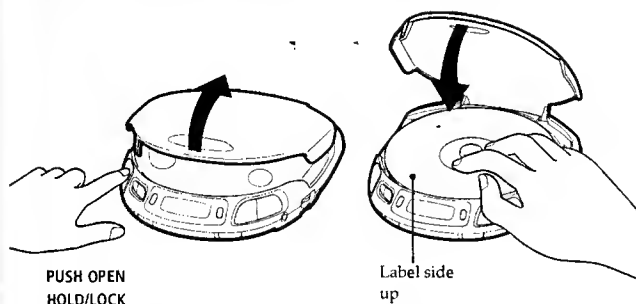
If you want to play a CD right now, choose to use your Discman on house current. Other choices are the following three: rechargeable battery, dry batteries (see "Power Sources" on the reverse side) and car battery.

1 Connect



For models supplied with the AC plug adaptor
If the AC power adaptor does not fit the wall outlet, use the AC plug adaptor.

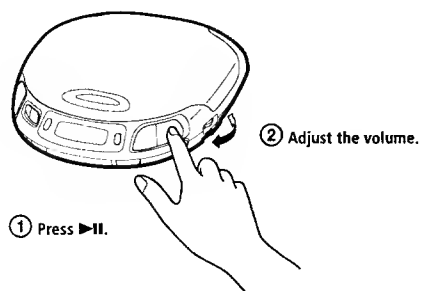
2 Place a CD



① Press PUSH OPEN HOLD/LOCK to open the lid.

② Fit the CD to the pivot.

3 Play



① Press ►||.

② Adjust the volume.

To stop play, press ■.

To	Press
Pause	⏸
Resume play after pause	▶▶
Find the beginning of the current track (AMS*)	◀◀ once**
Find the beginning of previous tracks (AMS)	◀◀ repeatedly**
Find the beginning of the next track (AMS)	▶▶ once**
Find the beginning of succeeding tracks (AMS)	▶▶ repeatedly**
Go forward quickly	▶▶ **
Go backwards quickly	◀◀ **

*AMS = Automatic Music Sensor
 **These operations are possible during both play and pause.

To remove the CD

Remove the CD while pressing the pivot.

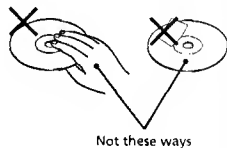


Notes on display

- When you press ▶▶, the total number of the tracks in the CD and the total playing time appear for 2 seconds.
- During play, the track number and the elapsed playing time of the current track appear.
- During pause, the elapsed playing time flashes in the display.
- Between the tracks, the time to the beginning of the next track will appear with the "--" indication.

Notes on handling CDs

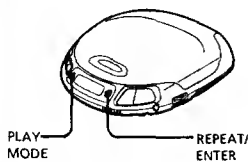
- To keep the CD clean, handle it by its edge.
- Do not touch the surface.
- Do not stick paper or tape onto the CD.
- Do not expose the CD to direct sunlight or heat sources such as hot air ducts. Do not leave the CD in a car parked in direct sunlight.



►Other Operations

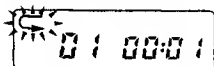
Playing tracks repeatedly (Repeat Play)

You can play tracks repeatedly in normal, INTRO PGM, shuffle or RMS (Random Music Sensor) play modes. Repeat all the tracks or only one track.



To repeat all the tracks

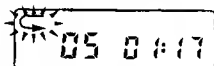
Press REPEAT/ENTER during play. The "◀" indication appears.



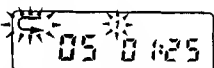
To cancel repeat play, press REPEAT/ENTER again.

To repeat a single track

- 1 Press REPEAT/ENTER while the track you want to repeat is playing. The "◀" indication appears.



- 2 Press PLAY MODE repeatedly until "1" appears.

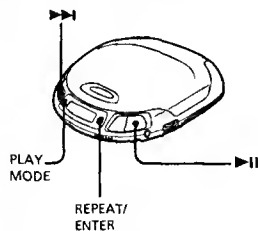


To repeat another track, press ◀◀ or ▶▶.

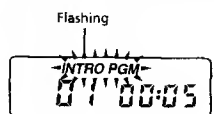
To cancel repeat play, press REPEAT/ENTER again.

Playing only the tracks you want (INTRO PGM Play)

You can choose and play your favorite tracks by scanning through the beginning of each track in a CD.



- 1 During play, press PLAY MODE repeatedly until "INTRO PGM" flashes.



- 2 Press ▶▶ to start scanning. The Discman plays the first 15 seconds of each track and "INTRO PGM" flashes faster.

- 3 Press REPEAT/ENTER while the track you want is playing. To skip the track, press ▶▶ or just wait for the next track.

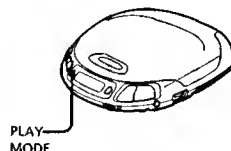
When you go through the CD, "INTRO PGM" stops flashing and the tracks you chose play automatically.

To finish programming before hearing through the CD, press ▶▶. The selected tracks are played.

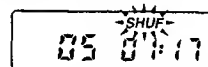
To cancel INTRO PGM play, press PLAY MODE repeatedly until no play mode is indicated in the display.

Playing tracks in random order (Shuffle Play)

You can play the tracks in a CD in random order.



During play, press PLAY MODE repeatedly until "SHUF" appears. The tracks play in random order.



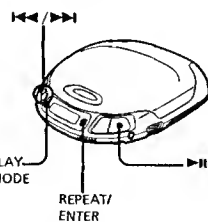
To cancel shuffle play, press PLAY MODE repeatedly until no play mode is indicated in the display.

Note

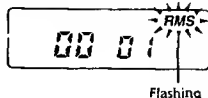
- During shuffle play, you cannot return to previous tracks by pressing ◀◀.

Playing tracks in the order you want (RMS play)

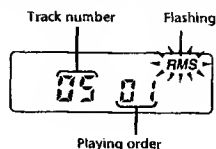
You can program up to 22 tracks to play in any order you choose.



- 1 During play, press PLAY MODE repeatedly until "RMS" flashes.



- 2 Press ◀◀ or ▶▶ to choose a track. The track number and the playing order appear.



- 3 Press REPEAT/ENTER to program the track.

- 4 Repeat steps 2 and 3 to program the remaining tracks.

- 5 Press ▶▶. "RMS" stops flashing and the tracks you chose play in the order you specified.

To cancel RMS play, press PLAY MODE until "RMS" disappears.

To check the program

To check during programming, press REPEAT/ENTER before step 5 above. To check during RMS play, press PLAY MODE repeatedly until "RMS" flashes, then press REPEAT/ENTER.

Each time you press the button, the track numbers appear in the order you specified.

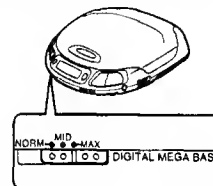
Note

- If you program another track after the 22nd track, the first track programmed is cleared and the new track is programmed instead.

Using other functions

To enjoy more powerful bass sound

You can enjoy a powerful bass-boosted sound.



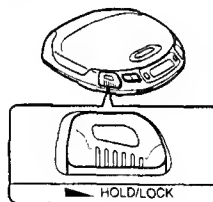
Set DIGITAL MEGA BASS to the desired position.

Notes

- If the sound is distorted when emphasizing bass, turn down the volume.
- Connecting to other stereo equipment: To output the original sound, set DIGITAL MEGA BASS to NORM.

To lock the buttons

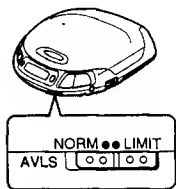
You can lock your Discman against any accidental operations.



Slide PUSH OPEN HOLD/LOCK in the direction of the arrow. When you press any button, "Hol d" appears in the display.

To unlock, slide PUSH OPEN HOLD/LOCK back.

To protect your hearing (AVLS)
The AVLS (Automatic Volume Limiter System) function keeps down the maximum volume to protect your ears.




Set AVLS to LIMIT.

Note

- If the sound is distorted when you listen to the bass-boosted sound with the AVLS function, turn down the volume.

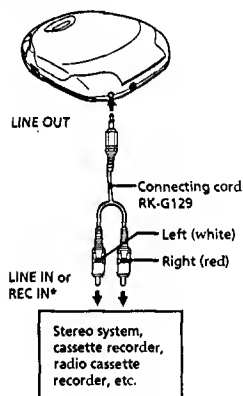
To turn off the beep

You can turn off the beep that sounds as you operate your Discman.

While you press and hold down  on the main unit, connect the power source.

Connecting to other stereo equipment

You can listen to the CD through other stereo equipment or record a CD on a cassette tape. Refer to the instruction manual of other equipment for details. Before making connections, turn off each equipment.



*To connect an equipment without LINE IN nor REC IN jack, use the RK-G134 connecting cord and connect to MIC jack.

Notes

- Before you play the CD, turn down the volume of the connected equipment so as not to damage the connected speakers.
- To output the original sound, set DIGITAL MEGA BASS to NORM.

Playing a CD in a car

You can use your Discman in a car as illustrated below.



To connect your Discman to a car cassette deck, you need the following accessories:

- Mount plate CPM-300P
- Car connecting pack CPA-9 or,
- Mount kit CPM-300PC (Mount plate + Car connecting pack)
- Car battery cord with car connecting pack DCC-E26CP

Refer to the instruction manual of each accessory for details.

When you use the CPM-300P mount plate

Attach the car mount adaptor supplied to the CPM-300P before installing the Discman.

Notes

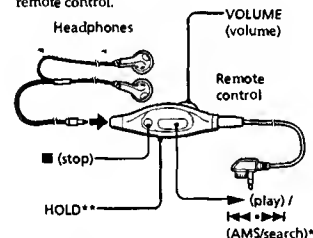
- Do not put the Discman on a dashboard.
- Do not leave the Discman in a car parked in sunlight.
- Use a Sony car connecting pack for reducing noise.




Switched ignition function

With this feature, your Discman stops automatically when you turn off the engine of the car. (This function is not available with some cars depending on the model).

Using the headphones with remote control (D-155 only)

You can use the remote control as the wired remote control.



*When you use the AMS or search function, press the  or  side of the  button during play.

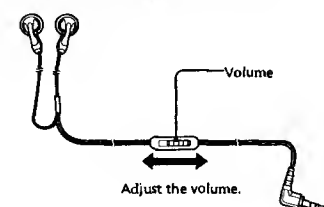
You cannot set the unit in pause, using the remote control.

**When you are not using the remote control, slide HOLD in the direction of the arrow. To unlock, slide HOLD back.

Notes

- Connect the headphones to the remote control securely. A loose connection may cause noise during play.
- You cannot operate some of the Discman with the supplied remote control.

Using the headphones with volume control

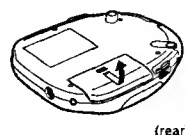


Power Sources

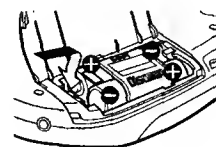
Using rechargeable battery

Charge the rechargeable battery BP-DM10 before using it for the first time.

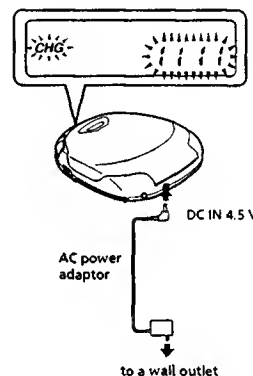
- 1 Open the lid of the battery compartment.



- 2 Insert the rechargeable battery so that the word "Discman" is facing the same direction as in the illustration below, and close the lid.




- 3 Connect the AC power adaptor and charge for about 3 hours. The indication "CHG" lights up and the "number 1" shifts position in succession until the battery is fully charged.



- 4 When fully charged, disconnect the AC power adaptor.

When to charge the battery

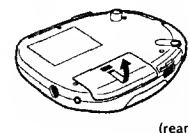
When the battery is used up,  indication appears in the display. Charge the rechargeable battery.



Notes

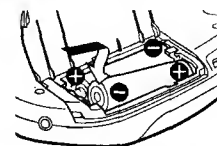
- Charging time varies depending on how the rechargeable battery is used.
- If the battery is new or has not been used for a long time, it may not be charged completely until you charge and discharge it several times.
- If the battery life reduces by about half, replace it with Sony BP-DM10 rechargeable battery. Do not use any other rechargeable battery.

Using dry batteries


- 1 Open the lid of the battery compartment.



- 2 Insert two LR6 (size AA) alkaline batteries by matching the  and  to the diagram inside the battery compartment and close the lid.



When to replace the dry batteries

When the battery is used up,  indication appears in the display. Replace all the batteries with new ones.

Notes

- Do not charge the dry batteries.
- Do not mix new batteries with old ones.
- Do not use different types of batteries together.

Battery life

(approx. hours)

Model	LR6 (AA) × 2	BP-DM10
D-150AN/ 151/151V/ 152CK/153	9	3
D-155	10	3.5

(When you use the Discman on a flat and stable place)

►Additional Information

Precautions

On safety

- Should any solid objects or liquid fall into the unit, unplug it and have it checked by qualified personnel before operating it any further.
- Do not put any foreign objects in the DC IN 4.5 V (external power input) jack.

On power sources

- When you are not using the unit for a long time, disconnect all power sources from the unit.
- The nameplate indicating operating voltage, power consumption, etc. is located at the back of the AC power adaptor (for Middle East only.)

On the AC power adaptor

- Use only the supplied or recommended AC power adaptor. Do not use any other AC power adaptor.

Polarity of the plug



- To unplug the AC power adaptor from the wall outlet, grasp the adaptor itself, do not pull its cord.

On dry and rechargeable batteries

- Do not throw the batteries into fire.
- Do not carry the rechargeable battery with coins or other metallic objects. It can generate heat if the positive and negative terminals of the battery are accidentally contacted by a metallic object.

On the unit

- Keep the lens on the unit clean and do not touch it. If you do so, the lens may be damaged and the unit will not operate properly.
- Do not put any heavy object on top of the unit. The unit and the CD may be damaged.
- Do not leave the unit in a location near heat sources, or in a place subject to direct sunlight, excessive dust or sand, moisture, rain, mechanical shock, unlevelled surface, or in a car with its windows closed.
- If the unit causes interference to the radio or television reception, turn off the unit or move it away from the radio or television.
- Do not wrap the unit in a cloth or blanket during use as it may cause malfunction or serious accidents.

On headphones

Road safety

Do not use headphones while driving, cycling, or operating any motorized vehicle. It may create a traffic hazard and is illegal in some areas. It can also be potentially dangerous to play your headsets at high volume while walking, especially at pedestrian crossings. You should exercise extreme caution or discontinue use in potentially hazardous situations.

Preventing hearing damage

Avoid using headphones at high volume. Hearing experts advise against continuous, loud and extended play. If you experience a ringing in your ears, reduce volume or discontinue use.

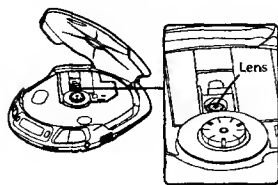
Caring for others

Keep the volume at a moderate level. This will allow you to hear outside sounds and to be considerate to the people around you.

Maintenance

To clean the lens

Clean the lens with a lens cleaning kit KK-DM1.



To clean the casing

Use a soft cloth slightly moistened in water or a mild detergent solution. Do not use alcohol, benzene or thinner.

Troubleshooting

Should any problem persist after you have made these checks, consult your nearest Sony dealer.

The CD does not play or "no disc" appears in the display though a CD is placed in the unit.

- The CD is dirty or defective.
- Insert the CD with the label side up.
- Moisture condensation has occurred. Leave the unit aside for several hours until the moisture evaporates.
- The lens is dirty.
- Close the lid of the unit and the battery compartment firmly.
- Make sure the batteries are inserted correctly.
- Connect the AC power adaptor to a wall outlet securely.

No sound, or noise is heard.

- Connect the plugs firmly.
- Plugs are dirty. Clean the plugs with a dry soft cloth periodically.

"Hi disc" appears in the display.

- Use only the supplied AC power adaptor or recommended AC power adaptor AC-E45HG (not supplied).

"Hold" appears in the display when you press a button.

- The buttons are locked. Slide PUSH OPEN HOLD/LOCK back.

The battery life is short.

- Manganese batteries are used. Use alkaline batteries.
- Replace the batteries with new ones.

The volume is limited to a certain level even if you attempt to turn it up.

- AVLS selector is set to LIMIT. Set it to NORM.

Specifications

System

Compact disc digital audio system

Laser diode properties

Material: GaAlAs
Wavelength: $\lambda = 780 \text{ nm}$
Emission duration: Continuous
Laser output: Less than $44.6 \mu\text{W}$ (measured at 200 mm away from the objective lens surface)

Error correction

Sony Super Strategy Cross Interleave Reed Solomon Code

D-A conversion

1-bit quartz time-axis control

Frequency response

20 - 20,000 Hz $\pm 1 \text{ dB}$ (measured by EIAJ CP-307)

Output (at 4.5 V input level)

Headphones (stereo minijack)
20 mW + 20 mW at 16 ohms
Line output (stereo minijack)
Output level 0.7 V rms at 47 kilohms
Recommended load impedance over 10 kilohms

General

Power requirements

- Rechargeable battery: 2.4 V DC
- Two LR6 (size AA) batteries: 3 V DC
- AC power adaptor (DC IN 4.5 V jack):
220 - 230 V, 50 Hz (European and Asian model)
120 V, 60 Hz (USA, Canadian, Central and South American model)
110 - 240 V, 50/60 Hz (Middle Eastern model)
230 - 240 V, 50 Hz (U.K. model)
240 V, 50 Hz (Australian model)
100 - 240 V, 50/60 Hz (Model for other countries and World model)
- Sony CPM-300P mount plate and DCC-E245 car battery cord for use on car battery: 4.5 V DC

Dimensions (w/h/d) (without projecting parts and controls)

Approx. 135 x 30.5 x 156 mm
(5 3/8 x 1 1/4 x 6 1/8 in.)

Mass (without rechargeable battery)

Approx. 250 g (8.8 oz)

Operating temperature

5°C - 35°C (41°F - 95°F)

Supplied accessories

D-150AN

- Stereo headphones (1)
- Alkaline batteries (2)*
- *World model only

D-151

- AC power adaptor (1)
- Connecting cord (Phono plug x 2 ↔ stereo miniplug) (1)
- Stereo headphones (1)

D-151V

- AC power adaptor (1)
- Connecting cord (Phono plug x 2 ↔ stereo miniplug) (1)
- Stereo headphones with volume control (1)

D-152CK

- AC power adaptor (1)*
- Stereo headphones (1)**
- Mount plate attached with car mount adaptor (1)
- Car battery cord (1)
- Car connecting pack (1)
- Connecting cord (Phono plug x 2 ↔ stereo miniplug) (1)*
- Spiral tube (1)
- Velcro tapes (2)
- Spare fuse (1)
- *Not supplied with European and UK model
- **European model only

D-153

- AC power adaptor (1)
- Connecting cord (Phono plug x 2 ↔ stereo miniplug) (1)
- Stereo headphones (1)
- Rechargeable battery (1)*
- *Not supplied with Australian model

D-155

- AC power adaptor (1)
- Stereo headphone with remote control (1)*
- Stereo headphones (1)**
- Connecting cord (Phono plug x 2 ↔ stereo miniplug) (1)*
- Rechargeable battery (1)
- *Not supplied with world model
- **World model only

Design and specifications are subject to change without notice.

Recommended accessories

Mount plate CPM-300P
Mount kit CPM-300PC
Car connecting pack CPA-9
Car battery cord with car connecting pack DCC-E26CP
Car battery cord DCC-E245
Active speaker system SRS-A21, SRS-A41, SRS-A60
Rechargeable battery BP-DM10
Connecting cord KK-G129
AC power adaptor AC-E45HG, AC-E45MA
Stereo headphones MDR-25, MDR-E747

Your dealer may not handle some of the above listed accessories. Please ask the dealer for detailed information about the accessories in your country.

For the customers in the USA

RECYCLING NICKEL-CADMIUM BATTERIES



Ni-Cd

NICKEL-CADMIUM BATTERY. MUST BE DISPOSED OF PROPERLY.

Nickel-Cadmium batteries are recyclable. You can help preserve our environment by returning your unwanted batteries to your nearest Sony Service Center for collection, recycling or proper disposal.

Note: In some areas the disposal of nickel cadmium batteries in household or business trash may be prohibited.

For the Sony Service Center nearest you call
1-800-222-SONY
(United States only)

Caution: Do not handle damaged or leaking nickel-cadmium batteries.